



**COMPLETE COTTON PACKAGE  
FOR FARMERS  
BY  
VST SHAKTI**

# INTRODUCTION



Agriculture is undergoing a gradual shift from dependence on human & animal power to mechanical power because of increased cost to maintain and feed the animal as well as increasing scarcity of human labour. However the Mechanical power is largely used by big land holding farmers and still beyond the reach of small / marginal holding farmers.

Thus there is an urgent and strong need for taking farm mechanization to the small and marginal land holding farmers who hold 80% of total India land holding. They are unable to own high end machine due their economic condition. To bring increase and support mechanisation to this segment there is a need of affordable machinery which can work though out the year with low initial investment and less operational / maintenance cost. This kind of innovative farm machinery package can bring mechanization and also make agriculture more sustainable & profitable. The expanded usage of internet and TV has also influenced the farmers to adapt mechanization.





## MISSION & OBJECTIVES

- Increasing the reach of farm mechanization at affordable cost to small and marginal farmers and to the regions where availability of farm power is low.
- Offsetting adverse 'economies of scale' and 'higher cost of ownership' of high value farm equipment by promoting Innovative complete crop solution at affordable initial investment
- Passing on the benefit of hi-tech, high value and hi-productive agricultural machinery to farmers through creating hubs for such farm equipment.
- Promoting farm mechanization by creating awareness among stakeholders through demonstration and capacity building activities.
- Making agriculture as a profitable business.



VST Company has introduced a innovative & affordable complete cotton package for farmers. The package will cover the complete process, the agricultural implements required, the key benefits of using VST Shakti tractors for cultivation and economics of cotton farming from custom hiring through rural young entrepreneurs.





## WHY VST SHAKTI TRACTORS ARE MOST SUITABLE FOR COTTON CULTIVATION

- A Compact Model-It is India's First Small and 4 Wheel Drive Tractor.
- Light in Weight, 3 cylinder engine and Less Vibration.
- Outer to outer track width only 0.91 meter & 2.1 meter turning radius, which makes this product best suitable for cotton inter cultivation & spraying application.
- Unique Japanese design at affordable cost, Wide network for Service & Spare parts, Good Resale Value, Less Soil compaction.
- Well known Brand name with decades of good will among the Farmer Community.
- Our Tractors are reliable and built to last. Good track record.



# FIELD PREPARATION

## CULTIVATOR

- Rigid / Spring Loaded cultivator is used for tilling soil.
- Depth of cultivation can be adjusted with top link of 3 point linkage
- 5 tynes are provided in both rigid & spring type cultivators
- 0.4 ~ 0.5 acres can be cultivated in 1 hour with average diesel consumption of 2 ~ 2.5 lts / hr of operation





# FIELD PREPARATION

## REVERSIBLE PLOUGH

- This is well designed for reverse ploughing alternately.
- Basic functions are inverting, breaking and raising of soil.
- Can be used in tough conditions
- Tills the soil which has deep roots, unwanted plants, shrubs and weeds.
- Ease of rotating manually using a lever and wire rope.
- Shears are made of tough alloy steel, can be moved forward as and when wear takes place due to usage in field
- Long life is assured as 4 ploughs will be used alternately
- 0.6 ~ 0.75 acres of land can be ploughed in 1 hour
- Diesel consumption is 1.5 ~ 1.75 lts / hr



# FIELD PREPARATION

## ROTAVATOR

- Simple in construction but with strong design, appropriate for medium soil conditions
- The application includes : Soil conditioning, weed control, seedbed preparation & inter cultivation.
- 28 tynes can be fitted – Straight tynes for dry land.
- 0.3 ~ 0.4 acres of land can be covered in 1 hour with average diesel consumption of 2.25 ~ 2.5 lts / hr
- Depth of Tilling is 100 ~ 125 mm.
- 2 models are available with 900 & 1100 mm width





# FIELD PREPARATION

## RIDGER

- It consists of rectangular frame made of mild steel angle or channel section, 3-point hitch assembly, shanks and ridger body.
- Body consists of two mouldboards, share, point and tie bars to vary the wingspan of ridgers.
- The share point is made from medium carbon steel or low alloy steel, hardened and tempered. And can be replaced with wear & tear.
- The ridger is operated in tilled soil, the share point penetrates in the soil, displaces it to both sides and a furrow is created.
- The soil mass between furrows forms a ridge. The depth of operation is controlled by hydraulic system of the tractor.
- Rows spacing is adjustable
- Covers ~ 0.75 acres in 1 hour.
- Weight of ridger ~ 230 kgs
- Consumption of diesel is 2 ~ 2.5 lts / hr



## INTER CULTIVATION

- Unique modification of the tractor helps in de-weeding operation by raising the complete tractor by 1.21 meter from ground level.
- This can be fitted on all our models – 2WD as well as on 4WD
- The modified Cultivator helps to remove unwanted weeds & safe guard cotton crop.
- Cultivator can be used as a blade harrow also by fitting a blade.
- It can also be used as a Leveller
- Provision is available for a person to sit on the cultivator which gives the advantage of additional weight
- Covers ~ 1.25 to 1.50 acres in 1hour of tractor working, with average diesel consumption of 1.25 lt / hr





## COTTON SEED PLANTER

- The Seed planter is especially suitable for sowing seeds
- Easy for mounting with three point linkage.
- Seeding sowing distance can be maintained
- Saves seeds, diesel, tractor's working time & labour cost.
- Area coverage 0.75 acre per hour.
- Diesel consumption 1.5 to 2 lts / hr.



# SPRAYING

- Useful for spraying of chemicals / insecticides on plants in open field
- Nozzles are provided to ensure equal spreading of the spray on both sides of the tractor
- Nozzle pressure can be adjusted depending upon the crop
- Mist formation is ensured by correct setting of the valve pressure
- 100% mixing of water and chemical is ensured during the spraying
- Spraying pump is driven by the PTO shaft of the tractor
- Available in 200 / 400 Lt tank capacities, weight of spraying unit – 180 kgs
- 100% mixing of water and chemicals is ensured
- 2 acres can be sprayed in 1 hour of operation, 2 lts / hr of diesel consumption





# POST HARVESTING

## CHAFF CUTTER

- This is a mechanical device for cutting straw or hay into small pieces before being mixed together with other forage and fed to cattle.
- Robustly constructed
- Chaff cutter is driven by the PTO shaft of the tractor.
- Requires very minimum maintenance.
- 2 ~ 3 tons of chaff can be cut in 1 hour.
- Consumption of diesel is 1.5 ~ 1.8 lts / hr



# HAULAGE

- Trailer of 3 tons capacity can be fitted for transportation.
- Primarily useful for transporting manure, chemical barrels, implements, cotton etc
- Types of Trailers: Manual & hydraulically operated.
- Standard – 2.43 x 1.37 x 0.61 meter (L x W x H)
- Weight of Manual trailer is ~ 600kgs & Hydraulic trailer is ~750 kgs
- Hydraulically assisted for tipping the load also available.
- Average consumption of diesel is 2.5 lts / hr
- Can load up to 2250 kgs





## TRACTOR MANUFACTURING PLANT AT HOSUR



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